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BEFORE THE ARIZONA CORPORATION COMMISSION

Commissioners:

Susan Bitter Smith, Chair

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Doug Little

Bob Stump

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AZ CORP COMMISSION
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IN THE MATTER OF THE APPLICATION)
OF SUNZIA TRANSMISSION LLC, IN)
CONFORMANCE WITH THE)
REQUIREMENTS OF ARIZONA REVISED)
STATUTES 40-360, ET SEQ., FOR A)
CERTIFICATE OF ENVIRONMENTAL)
COMPATIBILITY AUTHORIZING THE)
SUNZIA SOUTHWEST TRANSMISSION)
PROJECT, WHICH INCLUDES THE)
CONSTRUCTION OF TWO NEW 500 KV)
TRANSMISSION LINES AND)
ASSOCIATED FACILITIES ORIGINATING)
AT A NEW SUBSTATION (SUNZIA EAST))
IN LINCOLN COUNTY, NEW MEXICO,)
AND TERMINATING AT THE PINAL)
CENTRAL SUBSTATION IN PINAL)
COUNTY, ARIZONA. THE ARIZONA)
PORTION OF THE PROJECT IS LOCATED)
WITHIN GRAHAM, GREENLEE,)
COCHISE, PINAL, AND PIMA COUNTIES.)

DOCKET NO. L-00000YY-15-0318-00171

Case No. 171

REQUEST FOR REVIEW

Arizona Corporation Commission

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On November 24, 2015, the Arizona Power Plant and Line Siting Committee

("Committee") submitted for filing with the Arizona Corporation Commission ("Commission")

its Decision and Certificate of Environmental Compatibility ("CEC") in the above-captioned

matter. Pursuant to A.R.S. § 40-360.07.A and B and A.A.C. R13-3-214, as an intervening party

I hereby submit my request that the Commission review and reject the CEC as approved by the

Committee for the following reasons.

1 **I. INTRODUCTION**

2 SunZia Transmission, LCC proposes to build two 500-kilovolt transmission lines from
3 near Corona, New Mexico in central New Mexico to the Pinal Central substation near Eloy,
4 Arizona. The system would have a capacity of 3,000 megawatts if two AC lines are constructed
5 and 4,500 megawatts if an AC and DC line are constructed. This project is not being built in
6 direct response to the needs of Arizona or California utilities but is predominantly a merchant
7 project proposed to increase the ability of mostly New Mexico energy developers to compete in
8 western energy markets. Western utilities themselves do not need access to New Mexico power
9 to meet future renewable or conventional energy needs.

10 As noted in testimony by intervenors Meader and Else, the SouthWestern Power Group
11 (SWPG) initially conceived SunZia in 2006 as a single 500-kilovolt line linking the future Pinal
12 Central substation with the Afton generating southwest of Las Cruces, New Mexico, with
13 SWPG's permitted but unbuilt Bowie, Arizona, power station serving as the hub of the project.
14 In 2008 the project was expanded to central New Mexico by taking over the southern leg of the
15 proposed High Plains Express Project (HPX) between Corona, New Mexico, and Phoenix. The
16 full HPX Project would link Wyoming with Arizona and was suspended in 2008 following
17 completion of two feasibility studies that raised concerns about project risk and uncertainty.

18 **II. THE LACK OF AN ARIZONA NEED FOR IMPORTED RENEWABLE ENERGY**

19 The integrated resource plans of Arizona utilities show that the amount of renewable
20 energy they need and the time frame in which they need it cannot support a project on SunZia's
21 scale, as Tucson Electric Power has noted (Exhibit NMM-7). A much larger demand is required,
22 which only California has the potential to provide. Arizona's own solar resource is huge,
23 providing more than 300 times the capacity needed to meet all of our power requirements, and
24

1 while Arizona's wind resources are not nearly on the scale of New Mexico's, they are still
2 sufficient to meet our very modest in-state needs for that kind of energy. While California is the
3 principal target of the power SunZia would deliver, California utilities themselves have
4 expressed no need for or interest in this energy, and California's developers have shown that the
5 state's own resources are sufficient to meet all of its renewable energy needs, however large they
6 are. Thus the stated need and purpose of SunZia is questionable.

7 **III. CONFLICTS WITH ARIZONA RENEWABLE ENERGY DEVELOPMENT AND** 8 **EXPORT**

9 In order to reach the California market, New Mexico renewable energy developers must
10 utilize transmission capacity in central and western Arizona that is vital to our own stated plans
11 to develop and export our rich solar resource to California (Exhibit NMM-3). Arizona's solar
12 potential along the 500-kilovolt transmission lines that SunZia must use beyond Pinal Central to
13 deliver power is some of the best in the nation (Exhibit NMM-35). Electrical District 4 estimates
14 the developable solar potential around Pinal Central alone at 5,000-7,000 megawatts (Exhibit
15 NMM-29). In addition, the solar potential adjacent to the 500-kilovolt lines between Pinal
16 Central and the Palo Verde hub and between the Palo Verde hub and Yuma and Quartzite ranges
17 in the thousands of megawatts.

18 For SunZia to succeed, New Mexico developers must sell very large blocks of renewable
19 energy to California utilities, and the success of a single SunZia line could consume more than
20 1,000 megawatts of central and western Arizona transmission capacity that is essential to
21 developing these solar resources. SunZia's CEC Application makes no provision for
22 compensating for this use and protecting Arizona's renewable energy development and export
23 interests from it. Such a provision is needed.
24

1 **IV. LACK OF NECESSARY TRANSMISSION CAPACITY BEYOND PINAL**
2 **CENTRAL TO DELIVER POWER TO MARKET**

3 As noted in my testimony of November 2, 2015, Arizona demand for New Mexico power
4 in the time frame required for construction would be far too small to support a project of
5 SunZia's scale. Only the large California utilities have the potential to purchase enough power
6 to financially support the project. Arizona Public Service, which appears the most likely Arizona
7 purchaser of SunZia power given Mr. Sankaran's testimony for SunZia, has no transmission
8 lines that reach the Pinal Central Substation and would, in itself, have to purchase capacity on the
9 Salt River Project's transmission system to access power.

10 Assessing the amount of Available Transfer Capability (ATC) on SRP's lines to deliver
11 power to the California and APS markets is thus essential to determining SunZia's potential for
12 success. ATC is a measure of the transmission capacity that is available for sale. In Exhibit
13 ACC-5, SRP stated that it has never conducted a study of how much capacity on its system may
14 be commercially available to deliver power to the California and APS markets. SunZia indicated
15 that it has reviewed Total Transfer Capability only and do not know how much transmission
16 capacity would be available. The Project has proceeded this far without assessing how much
17 power can actually be sold to the required markets. SunZia has merely assumed that the full
18 capacity of its lines can be.

19 Testimony and exhibits provided by myself (November 2, 2015) and SunZia (October 22,
20 2015) indicate that less than 1,500 megawatts of transmission capacity may be commercially
21 available to deliver power beyond Pinal Central, which would mean that only one SunZia line
22 can be financed and built without adding transmission capacity. Two SunZia AC lines have a
23 rating of 3,000 megawatts of transfer capability, while the capacity of a combination of one AC
24 line and one DC line would be 4,500 megawatts, far more than the apparent availability of

1 commercial capacity of SRP's transmission system. The following factors determine this
2 potential limitation:

- 3 1. The new 500-kilovolt transmission line from Pinal Central to the Palo Verde hub
4 currently has only 187 megawatts of capacity available (ATC) for sale (SunZia exhibit
5 SUN-3, slide 56).
- 6 2. While substantial ATC may be available into SRP's service area from Pinal Central to the
7 north, it is the ATC across SRP's system to the Palo Verde hub and APS's service area
8 that determines how much power can be contractually delivered. An analysis on OATI
9 OASIS of SRP's system in September 2015 indicated that this capacity was limited to
10 1100 megawatts (N. Meader testimony of November 2, 2015).
- 11 3. In addition, the Salt River Project is planning to greatly expand natural gas generation in
12 the Southwest Valley area and would use the new 500-kilovolt lines constructed out of
13 Pinal Central to the west and north to deliver much of this power. This generation
14 includes a new 1,150-megawatt power plant at Pinal Central and a new 900-megawatt
15 power plant at the Abel Substation (my testimony of November 2, 2015; Exhibit NMM-
16 25). These two power plants will greatly reduce the transmission capacity available to
17 SunZia and New Mexico developers to deliver power westward.

18 Given these constraints and the requirement to reach the California with large blocks of
19 power to secure financing, constructing more than one 500-kilovolt AC line as approved in the
20 Certificate of Environmental Compatibility by the Power Plant and Transmission Line Siting
21 Committee does not appear feasible. The inability to construct a second line is unquestionably
22 true for the 3000-kilovolt DC option.

1 The issuance of any CEC should rest upon what the Applicant can concretely
2 demonstrate is possible to build. The construction of multiple lines should be predicated on the
3 Applicant demonstrating through ATC analysis with the relevant utilities or entities that would
4 provide the connecting transmission capacity that the capacity actually exists to reach the
5 necessary supporting markets. Establishing the existence of such capacity, that it will be added,
6 or that it is planned should be a condition of any CEC that permits construction of a second line.

7 I reiterate again what Electrical District 4 stated in its motion to intervene in SunZia's
8 petition to the Federal Energy Regulatory Commission for a Declaratory Order (Exhibit NMM-
9 29):

10 At its terminus, the Project is still remote from the referenced Nevada and California
11 markets, and will require additional unidentified facilities and upgrades to deliver to
the California market.

12 Without additional definition of how Project power will reach market, including
13 additional transmission elements and/or contractual arrangements, the Project is not
sufficiently defined.

14 **V. THE LACK OF REDUCTION OF TRANSMISSION CONGESTION AND A**
15 **LIMITED INCREASE IN RELIABILITY**

16 The Applicant claims that the project will reduce transmission congestion in Southwestern
17 New Mexico and southern Arizona, yet because of how SunZia interconnects with the grid, no
18 congestion relief is achieved on the existing system, most importantly for the Tucson metro area,
19 which ACC staff assumed would occur. While SunZia connects with one of Tucson Electric
20 Power Company's 345-kilovolt lines linking TEP's Springerville generating station with Tucson,
21 SunZia does not increase the transfer capability to Tucson and thus does not reduce congestion
22 on TEP's grid supplying the Tucson metro area. SunZia's interconnection with TEP's system
23 cannot bring any additional power to TEP's service area.
24

1 In addition, because of the removal of all SunZia connections (substations) with the
2 southwestern New Mexico grid, TEP and other Arizona utilities would not have access to
3 existing conventional (natural gas) generation from the east for their use. SunZia would allow
4 access to power sources from the northwest, but this increased access was also recently provided
5 by TEP's new 500-kilovolt line linking the Pinal Central substation with the Tortolita substation.

6 In contrast to SunZia, the proposed Southline Transmission Project would have two
7 interconnections with the southwestern New Mexico 345-kilovolt grid and a dozen
8 interconnections with the southern Arizona grid. Southline would be fully integrated with TEP's
9 grid serving Tucson, including TEP's 138-kilovolt system and 345-kilovolt system. Southline
10 would also connect with the central Arizona 500-kilovolt grid at the Tortolita substation.
11 Southline would increase the power that can flow to metro Tucson and would reduce congestion
12 on TEP's transmission system and the more local grid in southeastern Arizona. Southline would
13 also increase the reliability of the full southeastern Arizona grid.

14 While SunZia would provide some increase in reliability to TEP's transmission system by
15 linking TEP's 345-kilovolt Tucson-Springerville line with the Pinal Central substation, this link
16 does not address any outstanding reliability issues. TEP's initial 345-kilovolt transmission line
17 connecting the Springerville generating station with Tucson has existed for 30 years without any
18 pressing reliability concerns. While the Salt River Project has claimed some potential reliability
19 benefit from SunZia, this benefit would be minimal given SRP's total load. The only reliability
20 benefit SunZia would provide SRP would be a second path to obtain power primarily from
21 SRP's Springerville coal-fired generating station. The plant can contribute up to 400 megawatts
22 of power to SRP's peak load of 7,000-8,000 megawatts. SRP's Coronado generating station to
23 the west has existed since 1980, with power being fed to Phoenix through an SRP 500-kilovolt
24

1 line. As with TEP, SunZia is not addressing any outstanding reliability concern on SRP's
2 transmission system.

3 **VI. INCOMPATIBILITY OF THE SALT RIVER PROJECT'S PLANNED USE OF**
4 **SUNZIA WITH THE PROJECT'S STATED PURPOSE**

5 Of the utilities involved in SunZia, the Salt River Project has the greatest percent interest
6 in the development (current) phase of the project. This percentage was originally 13% but has
7 been reduced to 4.8%, as given in the response to the ACC's data request (Exhibit ACC-5). In
8 SRP's response to this data request, SRP stated that it no longer has any interest in New Mexico
9 wind energy, that its renewable energy focus is on solar resources within its own service area,
10 and that its principal interest in SunZia now is "to develop additional transmission from existing
11 generation sources located in eastern Arizona to serve load in central Arizona."

12 In specifying "existing generation sources" in "eastern Arizona," SRP is referring to the
13 Coronado and Springville coal-fired power plants. SRP owns all of Coronado and a 400-
14 megawatt block of Springville. SRP would use Tucson Electric Power Company's 345-
15 kilovolt line from Springville to SunZia's Willow substation to transfer power to SunZia's
16 lines and would then use SunZia lines to deliver the power to Pinal Central. Using SunZia to
17 deliver coal-fire-generated electricity violates the stated purpose of the project and ignores the
18 future trends of Arizona generation. SRP is advocating despoiling the San Pedro Valley to gain
19 access to a few hundred additional megawatts of coal-fired-generation when the utility may be
20 forced to abandon that source of power in the future. The large, additional investment in base
21 load generation that SRP has planned will be natural gas generation located mostly in its own
22 service area. SRP should focus on what can actually fulfill its needs.

23 If SRP were to utilize SunZia in this way, SRP would want to use only the 161-mile
24 segment from Willow to Pinal Central. SRP has no use for the 354-mile segment from Willow

1 to central New Mexico. When I asked Mr. Wray on cross examination of his rebuttal testimony
2 on November 18, 2015 whether SRP could participate in just the Willow to Pinal Central
3 segment, Mr. Wray said no, that SRP would have to participate in the full project if SRP wants to
4 participate, meaning that SRP would have to invest in the remaining 354 miles of project to have
5 the capacity on the segment it wants. This would be financially unreasonable for SRP, especially
6 given the added expense of burying the lines on the New Mexico portion of the project. Such
7 circumstances would seem to preclude SRP's involvement in constructing the project.

8 In addition, any SunZia capacity that SRP would use from Willow to Pinal Central would
9 remove that capacity from use by New Mexico renewable energy developers to deliver power to
10 Pinal Central, especially since the power that SRP would deliver would likely be base-load
11 power. SRP's use would reduce the potential utilization of the remaining 354 miles of the
12 project and make that portion less economically viable. SunZia's Application has not considered
13 these complications.

14 **VII. FINANCIAL RISK AND UNCERTAINTY FOR THE UTILITIES INVOLVED**

15 In his testimony on November 4, 2015 ACC staff member Ray Williamson stated that
16 SunZia posed no financial risk to utilities because this was a merchant project, and that if the
17 project failed, utilities or other companies could pick up the project for "pennies on the dollar."
18 SunZia counsel Bert Acken reiterated this argument in SunZia's closing arguments presented on
19 November 19, 2015. This premise neglects the fact, however, that three utilities are partners in
20 this project and that they themselves are not merchant entities. These utilities are the Salt River
21 Project, Tucson Electric Power Company, and Tri-State Generation and Transmission
22 Cooperative.

23 The participation of these utilities is split into two phases: (1) the development or
24 permitting phase (current phase), and (2) the construction phase. To date, the risk that these

1 utilities have taken is limited by the development-phase agreements they entered into. No one
2 knows the level at which they may participate in the construction phase, if they choose to do so,
3 or what risk they may assume.

4 In addition, in his rebuttal testimony (November 18, 2015) Mr. Wray stated that he
5 believes Arizona Public Service would purchase some New Mexico wind energy and that rather
6 than pay wheeling charges to transmit the power, APS would elect to acquire and own as much
7 SunZia transmission capacity as needed to deliver the maximum (or nameplate) capacity
8 provided by any power purchase agreement with SunEdison.

9 All of this participation, in whatever mode, entails an element of risk on the part of utilities
10 that the Corporation Commission is not in a position to police. Mr. Wray asserted in his testimony
11 that APS and TEP have tentatively expressed interest in 300-500 megawatts of New Mexico wind
12 energy. At a current project cost of \$2.3 billion, this much capacity would cost these utilities from
13 \$230 million to \$385 million. The amount of power that these utilities would acquire from such an
14 investment, given the capacity factor of New Mexico wind, would vary from less than 150
15 megawatts to less than 250 megawatts. This cost is an exorbitant price to pay for the transmission
16 capacity needed to deliver this much power. These utilities would also have to pay for the actual
17 power in addition to this transmission cost. While such a transmission investment would avoid
18 wheeling charges, no one has calculated what the financial advantage may be, if any, and the
19 potential advantage was not analyzed and presented in the SunZia hearing.

20 As disclosed in testimony by P. Else, SunZia has conducted no economic feasibility
21 studies to determine how SunZia will perform economically under the low utilization factors that
22 will be associated with the delivery of nearly pure renewable energy, as SunZia has characterized
23 the project. SunZia has conducted no cost-benefit analysis for the project as other entities or
24

1 utilities would. At this stage, no utility appears to have calculated the risk it may be taking by
2 acquiring an interest in the project. The ultimate method of cost recovery and profit-making for
3 SWPG and the MMR Group themselves is to sell their interest in the project, not own and
4 operate it. In addition, Mr. Wray stated that he expected the Salt River Project and Tucson
5 Electric Power Company to operate and maintain the Arizona portion of the project, which
6 would require additional TEP and SRP staff and equipment. The SouthWestern Power Group
7 and the MMR Group, which currently have a 92% interest in the project, would not do so. The
8 lack of attention to the economic details of the project by these two companies should be a
9 matter of significant concern to the Commission.

10 **VIII. SUMMARY AND RECOMMENDATION**

11 SunZia is a speculative project that would not meet any energy needs in Arizona that
12 cannot be easily met in other ways with our own resources. Only the California energy market is
13 sufficiently large to potentially support SunZia, and even then, whether the California market can
14 or will absorb the power that SunZia might provide is questionable. If SunZia were successful,
15 however, New Mexico developers would have to use up to 2,000 megawatts or more of central
16 and western Arizona transmission capacity to deliver their power to market. This would greatly
17 restrict Arizona's ability to develop and export its own renewable resources, most importantly
18 our solar resources, to California. California utilities also wish to access additional conventional
19 energy from Arizona using these same in-state transmission lines. SunZia has made no provision
20 or transmission plans to protect Arizona from New Mexico's competition and the resultant
21 potential loss of our transmission capacity for our own use. The Commission should require
22 SunZia to address this conflict with a concrete, demonstrable strategy.

1 In addition, neither SunZia nor the Salt River Project has assessed how much central and
2 western Arizona transmission capacity will be commercially available to deliver New Mexico's
3 energy to market. Limitations on the central Arizona transmission system linking the Pinal
4 Central substation with the Palo Verde hub combined with plans by the Salt River Project for
5 future natural gas generation in the Southeast Valley indicate that Central Arizona's existing
6 transmission system cannot commercially support more than one SunZia line. Additional
7 transmission capacity would have to be added to commercially accommodate the power from
8 two lines given the markets that must be reached. Most importantly, a dedicated 500-kilovolt
9 line to the Pinal Central to the Palo Verde hub would be required. This transmission limitation
10 would be even more exacerbated by using a DC option for the second line. The Commission is
11 being asked to approve a Certificate of Environmental Compatibility ("CEC") for a project that
12 Arizona's existing transmission system cannot commercially support when the market that must
13 be accessed is fully considered. Any CEC should require concrete proof that the necessary
14 transmission capacity will be added to support the project, stipulating that a second line, whether
15 AC or DC, cannot be built until this is demonstrated to the Commission.

16 Contrary to testimony provided by the Applicant, SunZia would provide no congestion
17 relief to southern Arizona's transmission system and would not increase the transfer capability to
18 and within the Tucson metro area. SunZia would also not address any critical reliability needs
19 on TEP's or SRP's transmission systems. Rather, the current transmission lines that may benefit
20 from SunZia's connection between the Willow and Pinal Central substations have existed for up
21 to three decades with full usage. Any reliability benefits that SunZia might offer to TEP's and
22 SRP's transmission systems would be auxiliary rather than essential to these systems.

1 The Salt River Project's potential use of SunZia would be to access solely coal-fired
2 generation in eastern Arizona and would be unrelated to renewable energy, the project's stated
3 purpose. Despoiling the San Pedro Valley for such use when this form of generation will likely
4 be phased out would be a travesty, especially given how Arizona's power generation will evolve
5 in the future. Arizona's future power needs will be met with principally natural gas generation
6 and in-state solar generation sited within the service areas of our utilities. Distributing this
7 energy will require local transmission system additions, not large, regional transmission lines.

8 Lastly, neither SunZia nor the Arizona utilities that may have an interest in SunZia have
9 provided any economic analysis giving the time required to recover project costs and how the
10 project might perform economically under different levels of usage and energy mixes. If
11 Arizona utilities were to own part of the project, the economic impact upon them and the risk of
12 their participation have not been quantified by any economic feasibility or cost-benefit studies.
13 The Commission should require SunZia to provide the basic economic data that show how
14 this project will perform, whether any investment in the project by Arizona utilities is cost
15 effective, and how much risk those utilities may be assuming by participating.

16 Given all of these factors, the Certificate of Environmental Compatibility that the
17 Commission has before it should be denied.

18 Respectfully submitted this 7th day of December 2015

19 

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